

# Light-Duty Vehicle E-Cert Workshop

January 23, 2008  
Air Resources Board  
El Monte, CA

# Workshop Agenda

1. Overview
2. Certification Process
3. E-Cert Process
4. Q&A Session

# Overview

By: Jackie Lourenco

# **Overview:**

## **ARB's Electronic Certification Goals**

- Standardize electronic certification system for all ARB certification categories
- Reduce paperwork
- Improve certification process
- Reduce application processing time

# **Overview:**

## **ARB's Electronic Certification Objectives**

An electronic certification system should:

1. Enable staff to more easily access and review an application
2. Enable a manufacturer to get confirmation when certification applications are submitted
3. Assist in tracking application progress

# Certification Process

By: Tom Chang

# Certification Process

1. Certification Now
2. Certification for 2010 MY
3. Registration

# How Does Certification Work Now?

- Manufacturer submits certification documents to DMS.
  - Engine family specific information (data)
  - Supporting documents and files
- Staff reviews supporting documents and files.
- Staff inputs data into Cert-on-line.
- If DMS and Cert-on-line review = OK, staff issues EO through Cert-on-line.



# 2010 MY Certification Application

- Two parts to a certification application:
  1. Document Management System (DMS) = documents and files.
  2. Electronic Certification (E-Cert) = database for application data.
  
- DMS + E-Cert = **complete** application

# How Will Certification Work for all 2010 Model Year Vehicles?

- Manufacturer submits documents and files to DMS.
- Manufacturer submits application data to the E-cert database.
- Staff reviews both DMS documents and E-Cert database.
- Both sets of information are needed for EO issuance.
- If DMS **and** E-Cert reviews = OK, then staff will issue EO from E-Cert.

# DMS – 2010MY+

- Filing and storage system for documents.
- Examples of DMS documents:
  - Durability test plans and supporting data
  - Modified and/or special emissions test procedures
  - Warranty statements
  - Labels
  - AECD descriptions and justifications
  - Etc., etc., etc.

# E-Cert – 2010MY+

- E-Cert = Database
- Replaces old data summary sheets (current EPA's CEFIS printouts).
- Contains data and information on basic TG and ECS design, vehicle model description, durability and certification emission data, and other related information.
- Used to generate EO, track running changes, and other data usages.

# How to Register with DMS & E-Cert?

- Existing DMS users already have E-Cert accounts – new password will be sent.
- New users must register to use DMS/E-Cert system.
- Manufacturers may have multiple user accounts.

# Sample Registration Form

## Template for Manufacturer Contact Information entry into ARB'S DMS and E-Cert Systems

<b>R o w #</b>	<b>Data Entry Directions</b>	<b>Manufacturer Name</b> The official name - as printed on the E.O. This must be correct - commas, abbreviations or not, capitalizations or not, etc... or manufacturers' electronic submissions will not work.	<b>Vehicle/En gine Type Responsibil ity</b>	<b>Activi ty Type</b>	<b>Primar y Contac t? (Y/N)</b>	<b>Email Address</b>	<b>Contact Last Name</b>	<b>Contact First Name</b>	<b>Contact Title</b>
...									

# **E-Cert Process**

By: Mina Fanous

# Introduction

- Topics:
  - The LDV XML Schema
  - LDV Application Flow Chart
  - XML File Types Flow
  - E-Cert File Uploader
    - XML file naming convention
    - Overview of E-Cert File Uploader Website
      - Live Demo
  - LDV Certification Timeline
  - Upcoming Categories
  - Questions & Answers



# The CARB's LDV XML Schema

- Available for download at:  
<http://www.arb.ca.gov/msprog/arbcert/arbcert.htm>
- The XML schema is a set of rules which an XML file must follow in order to be considered valid.
  - E-Cert will only accept valid XML files.
- To ensure that the XML file is valid, validate it against the XML schema.
- All XML files must be complete!
  - No XML files containing partial information will be accepted.

# LDV Application Flow Chart

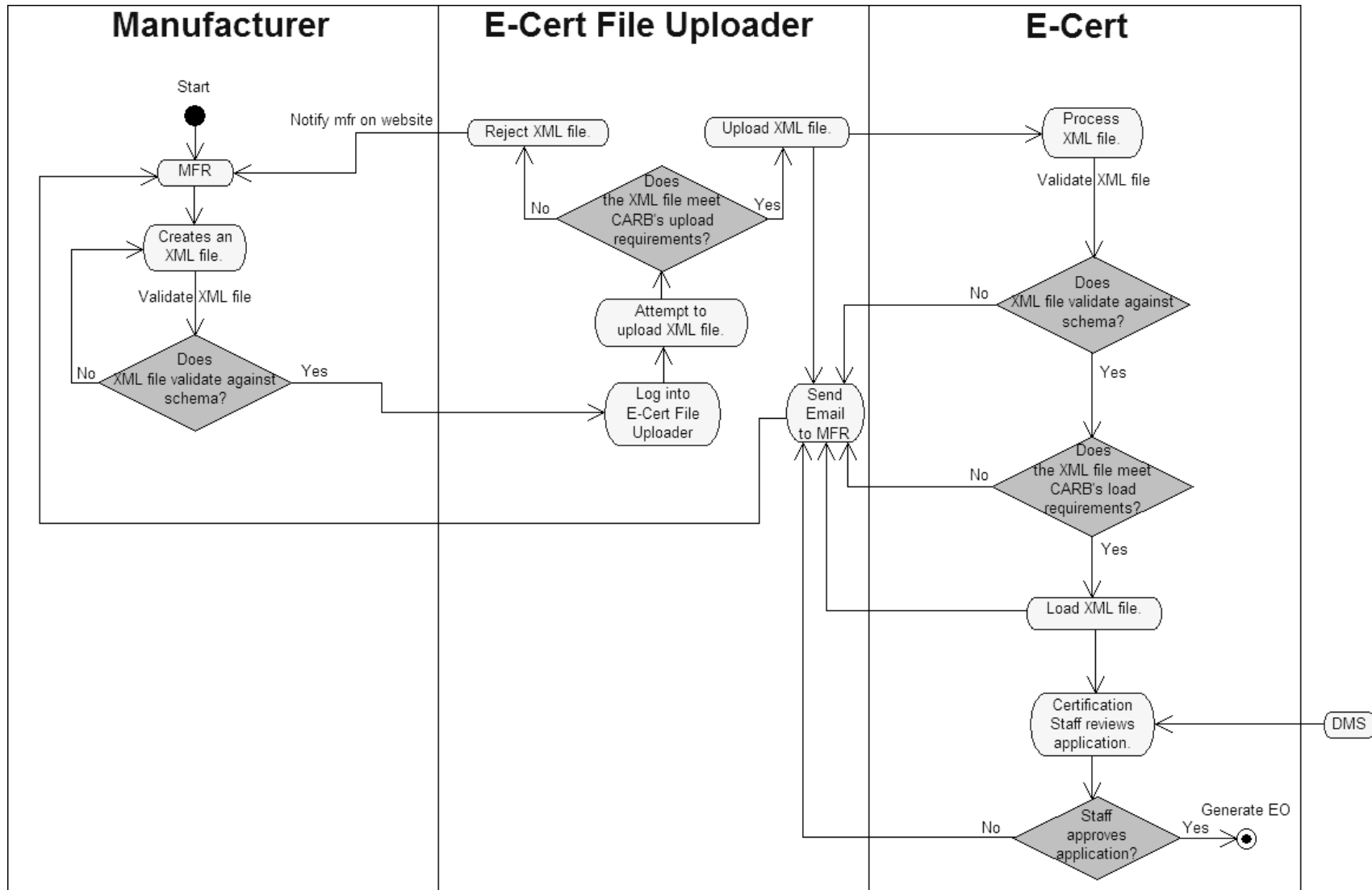


Fig 2

# XML File Types Flow

- First submission must have “NEW” as it’s application type.
- We only accept one “NEW” application. Any duplicate “NEW” applications are rejected.
- Acceptable application types following “NEW” may include:
  - Correction – For applications with corrections to the initial application submitted.
  - Running Change – Production changes (both emission and non-emission related) to the original certified vehicle/engine configurations.
  - Field Fix – A way to modify/change in-use certified vehicle/engine configurations (both emission and non-emission related).
  - Carry Over – For applications that carry over the entire previous model year’s information.
    - Will be applicable for the 2011 model year.

# E-CERT FILE UPLOADER

- Direct link is currently not available.
  - Link to the E-Cert File Uploader will be posted at <http://www.arb.ca.gov/msprog/arb.cert/arb.cert.htm> when the website is up.
- File naming convention:  
**<CARB\_MFR\_CODE>\_LDV\_<TEST\_GROUP>.xml**
  - Everything in ***bold italics*** is what should be changed.
  - Example: CARB\_LDV\_7CRBCC01.A.xml
- Only one test group per XML file.

# E-CERT FILE UPLOADER

## ■ Login Page

- You must be registered in our system in order to login.
  - Contact your cert representative to register.



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User ID:

Password:

Fig 3

# E-CERT FILE UPLOADER

## ■ Uploader Page

1. Click **Browse**
2. Select an XML file.
3. Click **Open**.



Fig 4

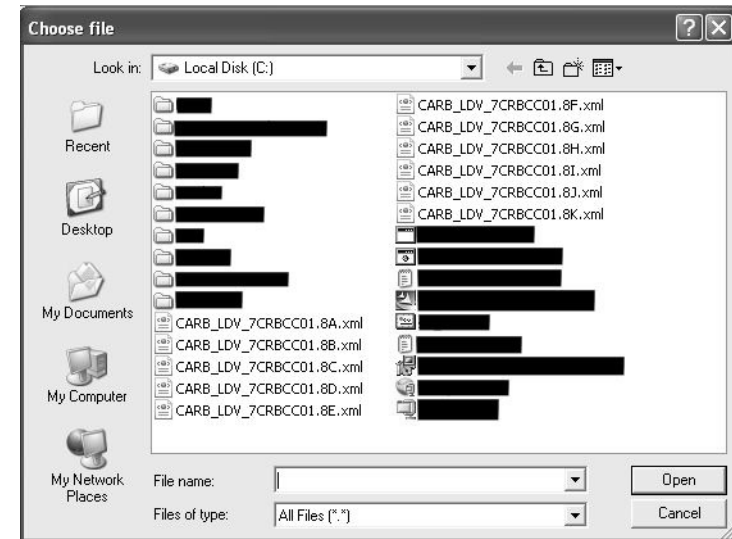


Fig 5

# E-CERT FILE UPLOADER

- Uploader Page
  4. Click **Add**
  5. To add numerous files, repeat steps 1 through 4.

**Note:** To remove a file, highlight the file and click **Remove**.



Fig 6



Fig 7

# E-CERT FILE UPLOADER

- Uploader Page
  - 6. Click **Upload** to send CARB the XML file.
- Successful Uploads
  - Receive a message on the screen. →
  - Receive an email. ↓



Fig 8

Dear Mina Fanous,

This is an automated e-mail message from CARB's E-Cert System. Please Do NOT Reply To This E-mail.

You are receiving this email because the file entitled **CARB\_LD\_V\_7CRBCC01.8A\_20080117104112.xml** has been **SUCCESSFULLY** uploaded. Please contact your assigned certification staff for review status.

From,  
CARB's E-Cert System

Fig 9



# E-CERT FILE UPLOADER

- Uploader Page
  - Unsuccessful Uploads
    - Receive a message on the screen.

**Note:** Only one test group per XML file.



Fig 10

# **E-CERT FILE UPLOADER**

**Live Demo**

# LDV Certification Timeline

- Volunteer testing will begin on **May 26, 2008**.
- Volunteers needed to test the E-Cert File Uploader.
  - Volunteer requirements:
    1. Register and receive an E-Cert password.
    2. Create an XML file.
    3. Validate the XML file against the schema.
    4. Upload the XML file.
  - Testing will be conducted through August 1<sup>st</sup>.
    - All test data will be purged.
- All applications received as of **August 4<sup>th</sup>** will be official.
- Starting **January 1, 2009** and all 2010 MY test groups must use E-Cert.

# Upcoming Categories

- On-Road HDD and Off-Road CI
- SIME
- SORE
- On-Road HDG
- Off-Road LSI

# Questions & Answers

## ■ List of Contacts:

### ■ Cert Related Issues:

- Rhonda Runyon: 626-575-6653, rrunyon@arb.ca.gov
- Tom Chang: 626-575-6809, ychang@arb.ca.gov

### ■ IT Related Issues:

- Mina Fanous: 626-575-6867, mfanous@arb.ca.gov
- Robert Gammariello: 626-450-6138, rgammari@arb.ca.gov